



SEQUENCE LISTING

<110> Demotz et al.

<120> SYNTHETIC CHEMOKINES LABELED AT SELECTED POSITIONS

<130> 29964/38772A

<150> US 60/412,866

<151> 2002-09-23

<160> 21

<170> PatentIn version 3.2

<210> 1

<211> 69

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 1

Gly Pro Tyr Gly Ala Asn Met Glu Asp Ser Val Cys Cys Arg Asp Tyr
1 5 10 15

Val Arg Tyr Arg Leu Pro Leu Arg Val Val Lys His Phe Tyr Trp Thr
20 25 30

Ser Asp Ser Cys Pro Arg Pro Gly Val Val Leu Leu Thr Phe Arg Asp
35 40 45

Lys Glu Ile Cys Ala Asp Pro Arg Val Pro Trp Val Lys Met Ile Leu
50 55 60

Asn Lys Leu Ser Gln
65

<210> 2

<211> 69

<212> PRT

<213> Artificial sequence

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<220>

<221> misc_feature

<222> (1)..(1)

<223> The Glycine at position 1 is biotinylated

<400> 2

Gly Pro Tyr Gly Ala Asn Met Glu Asp Ser Val Cys Cys Arg Asp Tyr
1 5 10 15

Val Arg Tyr Arg Leu Pro Leu Arg Val Val Lys His Phe Tyr Trp Thr
20 25 30

Ser Asp Ser Cys Pro Arg Pro Gly Val Val Leu Leu Thr Phe Arg Asp
35 40 45

Lys Glu Ile Cys Ala Asp Pro Arg Val Pro Trp Val Lys Met Ile Leu
50 55 60

Asn Lys Leu Ser Gln
65

<210> 3
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<222> (27)..(27)
<223> The Lysine at position 27 is biotinylated

<400> 3

Gly Pro Tyr Gly Ala Asn Met Glu Asp Ser Val Cys Cys Arg Asp Tyr
1 5 10 15

Val Arg Tyr Arg Leu Pro Leu Arg Val Val Lys His Phe Tyr Trp Thr
20 25 30

Ser Asp Ser Cys Pro Arg Pro Gly Val Val Leu Leu Thr Phe Arg Asp
35 40 45

Lys Glu Ile Cys Ala Asp Pro Arg Val Pro Trp Val Lys Met Ile Leu
50 55 60

Asn Lys Leu Ser Gln
65

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<222> (49)..(49)
<223> The Lysine at position 49 is biotinylated

<400> 4

Gly Pro Tyr Gly Ala Asn Met Glu Asp Ser Val Cys Cys Arg Asp Tyr
1 5 10 15

Val Arg Tyr Arg Leu Pro Leu Arg Val Val Lys His Phe Tyr Trp Thr
20 25 30

Ser Asp Ser Cys Pro Arg Pro Gly Val Val Leu Leu Thr Phe Arg Asp
35 40 45

Lys Glu Ile Cys Ala Asp Pro Arg Val Pro Trp Val Lys Met Ile Leu
50 55 60

Asn Lys Leu Ser Gln
65

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<222> (61)..(61)
<223> The Lysine at position 61 is biotinylated

<400> 5

Gly Pro Tyr Gly Ala Asn Met Glu Asp Ser Val Cys Cys Arg Asp Tyr
1 5 10 15
Val Arg Tyr Arg Leu Pro Leu Arg Val Val Lys His Phe Tyr Trp Thr
20 25 30
Ser Asp Ser Cys Pro Arg Pro Gly Val Val Leu Leu Thr Phe Arg Asp
35 40 45
Lys Glu Ile Cys Ala Asp Pro Arg Val Pro Trp Val Lys Met Ile Leu
50 55 60

Asn Lys Leu Ser Gln
65

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<220>
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<222> (66)..(66)
<223> The Lysine at position 66 is biotinylated

<400> 6

Gly Pro Tyr Gly Ala Asn Met Glu Asp Ser Val Cys Cys Arg Asp Tyr
1 5 10 15
Val Arg Tyr Arg Leu Pro Leu Arg Val Val Lys His Phe Tyr Trp Thr
20 25 30
Ser Asp Ser Cys Pro Arg Pro Gly Val Val Leu Leu Thr Phe Arg Asp
35 40 45
Lys Glu Ile Cys Ala Asp Pro Arg Val Pro Trp Val Lys Met Ile Leu
50 55 60

Asn Lys Leu Ser Gln
65

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<222> (75)..(75)
<223> The Lysine at position 75 is biotinylated

<400> 7

Gln Pro Asp Ala Ile Asn Ala Pro Val Thr Cys Cys Tyr Asn Phe Thr
1 5 10 15

Asn Arg Lys Ile Ser Val Gln Arg Leu Ala Ser Tyr Arg Arg Ile Thr
20 25 30

Ser Ser Lys Cys Pro Lys Glu Ala Val Ile Phe Lys Thr Ile Val Ala
35 40 45

Lys Glu Ile Cys Ala Asp Pro Lys Gln Lys Trp Val Gln Asp Ser Met
50 55 60

Asp His Leu Asp Lys Gln Thr Gln Thr Pro Lys Thr
65 70 75

<210> 8
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<220>
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<222> (73)..(73)
<223> The Lysine at position 73 is biotinylated

<400> 8

Gly Pro Ala Ser Val Pro Thr Thr Cys Cys Phe Asn Leu Ala Asn Arg
1 5 10 15

Lys Ile Pro Leu Gln Arg Leu Glu Ser Tyr Arg Arg Ile Thr Ser Gly
20 25 30

Lys Cys Pro Gln Lys Ala Val Ile Phe Lys Thr Lys Leu Ala Lys Asp
35 40 45

Ile Cys Ala Asp Pro Lys Lys Lys Trp Val Gln Asp Ser Met Lys Tyr
50 55 60

Leu Asp Gln Lys Ser Pro Thr Pro Lys Pro
65 70

<210> 9
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<220>
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 <222> (73)..(73)
 <223> The Lysine at position 73 is biotinylated

<400> 9

Gly Thr Asn Asp Ala Glu Asp Cys Cys Leu Ser Val Thr Gln Lys Pro
 1 5 10 15

Ile Pro Gly Tyr Ile Val Arg Asn Phe His Tyr Leu Leu Ile Lys Asp
 20 25 30

Gly Cys Arg Val Pro Ala Val Val Phe Thr Thr Leu Arg Gly Arg Gln
 35 40 45

Leu Cys Ala Pro Pro Asp Gln Pro Trp Val Glu Arg Ile Ile Gln Arg
 50 55 60

Leu Gln Arg Thr Ser Ala Lys Met Lys Arg Arg Ser Ser
 65 70 75

<210> 10
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 <222> (67)..(67)
 <223> The amino acid at position 67 is Dpr(Ser) linked to Alexa
 Fluor647

<400> 10

Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys Arg Phe Phe Glu Ser
 1 5 10 15

His Val Ala Arg Ala Asn Val Lys His Leu Lys Ile Leu Asn Thr Pro
 20 25 30

Asn Cys Ala Leu Gln Ile Val Ala Arg Leu Lys Asn Asn Asn Arg Gln
 35 40 45

Val Cys Ile Asp Pro Lys Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys
 50 55 60

Ala Leu Xaa Lys
 65

<210> 11
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<220>
 <221> misc_feature
 <222> (73)..(73)
 <223> The amino acid at position 73 is Dpr(Ser) linked to EVOblue30

<400> 11

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Gly Pro Ala Ser Val Pro Thr Thr Cys Cys Phe Asn Leu Ala Asn Arg
1          5          10          15
Lys Ile Pro Leu Gln Arg Leu Glu Ser Tyr Arg Arg Ile Thr Ser Gly
          20          25          30
Lys Cys Pro Gln Lys Ala Val Ile Phe Lys Thr Lys Leu Ala Lys Asp
          35          40          45
Ile Cys Ala Asp Pro Lys Lys Lys Trp Val Gln Asp Ser Met Lys Tyr
          50          55          60
Leu Asp Gln Lys Ser Pro Thr Pro Xaa Pro
65          70
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<210> 12
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<220>
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 <222> (66)..(66)
 <223> The amino acid at position 66 is Dpr(Ser) linked to europium chelate

<400> 12

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Gly Pro Tyr Gly Ala Asn Met Glu Asp Ser Val Cys Cys Arg Asp Tyr
1          5          10          15
Val Arg Tyr Arg Leu Pro Leu Arg Val Val Lys His Phe Tyr Trp Thr
          20          25          30
Ser Asp Ser Cys Pro Arg Pro Gly Val Val Leu Leu Thr Phe Arg Asp
          35          40          45
Lys Glu Ile Cys Ala Asp Pro Arg Val Pro Trp Val Lys Met Ile Leu
          50          55          60
Asn Xaa Leu Ser Gln
65
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<210> 13
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<212> PRT
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<220>

<223> Synthetic peptide

<220>

<221> misc_feature

<222> (71)..(71)

<223> The amino acid at position 71 is Dpr(Ser) linked to AlexaFluor647

<400> 13

Ser Ala Lys Glu Leu Arg Cys Gln Cys Ile Lys Thr Tyr Ser Lys Pro
1 5 10 15

Phe His Pro Lys Phe Ile Lys Glu Leu Arg Val Ile Glu Ser Gly Pro
20 25 30

His Cys Ala Asn Thr Glu Ile Ile Val Lys Leu Ser Asp Gly Arg Glu
35 40 45

Leu Cys Leu Asp Pro Lys Glu Asn Trp Val Gln Arg Val Val Glu Lys
50 55 60

Phe Leu Lys Arg Ala Glu Xaa Ser
65 70

<210> 14

<211> 76

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 14

Gln Pro Asp Ala Ile Asn Ala Pro Val Thr Cys Cys Tyr Asn Phe Thr
1 5 10 15

Asn Arg Lys Ile Ser Val Gln Arg Leu Ala Ser Tyr Arg Arg Ile Thr
20 25 30

Ser Ser Lys Cys Pro Lys Glu Ala Val Ile Phe Lys Thr Ile Val Ala
35 40 45

Lys Glu Ile Cys Ala Asp Pro Lys Gln Lys Trp Val Gln Asp Ser Met
50 55 60

Asp His Leu Asp Lys Gln Thr Gln Thr Pro Lys Thr
65 70 75

<210> 15

<211> 74

<212> PRT

<213> Artificial sequence

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<223> Synthetic peptide

<400> 15

Gly Pro Ala Ser Val Pro Thr Thr Cys Cys Phe Asn Leu Ala Asn Arg
1 5 10 15

Lys Ile Pro Leu Gln Arg Leu Glu Ser Tyr Arg Arg Ile Thr Ser Gly
20 25 30

Lys Cys Pro Gln Lys Ala Val Ile Phe Lys Thr Lys Leu Ala Lys Asp
35 40 45

Ile Cys Ala Asp Pro Lys Lys Lys Trp Val Gln Asp Ser Met Lys Tyr
50 55 60

Leu Asp Gln Lys Ser Pro Thr Pro Lys Pro
65 70

<210> 16

<211> 77

<212> PRT

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<220>

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<400> 16

Gly Thr Asn Asp Ala Glu Asp Cys Cys Leu Ser Val Thr Gln Lys Pro
1 5 10 15

Ile Pro Gly Tyr Ile Val Arg Asn Phe His Tyr Leu Leu Ile Lys Asp
20 25 30

Gly Cys Arg Val Pro Ala Val Val Phe Thr Thr Leu Arg Gly Arg Gln
35 40 45

Leu Cys Ala Pro Pro Asp Gln Pro Trp Val Glu Arg Ile Ile Gln Arg
50 55 60

Leu Gln Arg Thr Ser Ala Lys Met Lys Arg Arg Ser Ser
65 70 75

<210> 17

<211> 68

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 17

Lys Pro Val Ser Leu Ser Tyr Arg Cys Pro Cys Arg Phe Phe Glu Ser
1 5 10 15

His Val Ala Arg Ala Asn Val Lys His Leu Lys Ile Leu Asn Thr Pro
20 25 30

Asn Cys Ala Leu Gln Ile Val Ala Arg Leu Lys Asn Asn Asn Arg Gln
35 40 45

Val Cys Ile Asp Pro Lys Leu Lys Trp Ile Gln Glu Tyr Leu Glu Lys
 50 55 60 .

Ala Leu Asn Lys
 65

<210> 18
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 <212> PRT
 <213> Artificial sequence

<220>
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<400> 18

Ser Ala Lys Glu Leu Arg Cys Gln Cys Ile Lys Thr Tyr Ser Lys Pro
 1 5 10 15

Phe His Pro Lys Phe Ile Lys Glu Leu Arg Val Ile Glu Ser Gly Pro
 20 25 30

His Cys Ala Asn Thr Glu Ile Ile Val Lys Leu Ser Asp Gly Arg Glu
 35 40 45

Leu Cys Leu Asp Pro Lys Glu Asn Trp Val Gln Arg Val Val Glu Lys
 50 55 60

Phe Leu Lys Arg Ala Glu Asn Ser
 65 70

<210> 19
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 <212> PRT
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<220>
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<400> 19

Phe Pro Met Phe Lys Arg Gly Arg Cys Leu Cys Ile Gly Pro Gly Val
 1 5 10 15

Lys Ala Val Lys Val Ala Asp Ile Glu Lys Ala Ser Ile Met Tyr Pro
 20 25 30

Ser Asn Asn Cys Asp Lys Ile Glu Val Ile Ile Thr Leu Lys Glu Asn
 35 40 45

Lys Gly Gln Arg Cys Leu Asn Pro Lys Ser Lys Gln Ala Arg Leu Ile
 50 55 60

Ile Lys Lys Val Glu Arg Lys Asn Phe
 65 70

<210> 20
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 <212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 20

Lys Ser Met Gln Val Pro Phe Ser Arg Cys Cys Phe Ser Phe Ala Glu
1 5 10 15
Gln Glu Ile Pro Leu Arg Ala Ile Leu Cys Tyr Arg Asn Thr Ser Ser
20 25 30
Ile Cys Ser Asn Glu Gly Leu Ile Phe Lys Leu Lys Arg Gly Lys Glu
35 40 45
Ala Cys Ala Leu Asp Thr Val Gly Trp Val Gln Arg His Arg Lys Met
50 55 60
Leu Arg His Cys Pro Ser Lys Arg Lys
65 70

<210> 21

<211> 69

<212> PRT

<213> Artificial sequence

<220>

<223> Synthetic peptide

<400> 21

Ala Gln Val Gly Thr Asn Lys Glu Leu Cys Cys Leu Val Tyr Thr Ser
1 5 10 15
Trp Gln Ile Pro Gln Lys Phe Ile Val Asp Tyr Ser Glu Thr Ser Pro
20 25 30
Gln Cys Pro Lys Pro Gly Val Ile Leu Leu Thr Lys Arg Gly Arg Gln
35 40 45
Ile Cys Ala Asp Pro Asn Lys Lys Trp Val Gln Lys Tyr Ile Ser Asp
50 55 60
Leu Lys Leu Asn Ala
65